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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/530,716	04/08/2005	Matthew Hague	608-453	6892	
23117 NIXON & VA	23117 7590 08/02/2007 NIXON & VANDERHYE, PC			EXAMINER	
901 NORTH GLEBE ROAD, 11TH FLOOR			VANOY, TIMOTHY C		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER	
			1754		
				•	
			MAIL DATE	DELIVERY MODE	
			08/02/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
Office Action Commence	10/530,716	HAGUE ET AL.		
Office Action Summary	Examiner	Art∙Unit		
	Timothy C. Vanoy	1754		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status	•			
Responsive to communication(s) filed on <u>08 Ag</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 17-36 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) 17-36 is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>Apr. 8, 2005, Oct. 31, 2005</u>. 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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DETAILED ACTION

Priority

- a) Receipt is acknowledged of papers filed under 35 U.S.C. 119 (a)-(d) based on an application filed in Great Britain on Oct. 8, 2002. Applicant has not complied with the requirements of 37 CFR 1.63(c), since the oath, declaration or application data sheet does not acknowledge the filing of any foreign application. A new oath, declaration or application data sheet is required in the body of which the present application should be identified by application number and filing date.
- b) Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because it does not set forth that this application is a 371 filing of PCT/GB03/04052 filed on Sept. 23, 2003, and the oath or declaration does not claim benefit of the foreign priority document UK 0223300.5 filed on Oct. 8, 2002. It appears that the applicants merely submitted the same oath in the parent application (i. e. PCT/GB03/04052) for this national stage application, but it is not clear if this proper.

Specification

a) Applicant is reminded of the proper language and format for an abstract of the disclosure.

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The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract in this application exceeds 150 words and is, therefore, too long.

Claim Rejections - 35 USC § 102

Claim Rejections - 35 USC § 103

None of the claims have been rejected under either 35USC102 or 35USC103 because all of the applicants' independent claims have limited the catalyst to include tin, and this limitation is not taught or suggested in U. S. Pat. 4,299,800 (one of the more relevant pieces of prior art in this application). Additionally, the applicants' specification has provided surprising and unexpected benefits attributed to the presence of tin in the applicants' catalyst, as set forth on pg. 23 lns. 6-9 in the applicants' specification in comparing the results of applicants' Example 12 (which uses a catalyst that contains the claimed tin) to the results of applicants' Comparative Example 6 (which uses a catalyst that does not contain the claimed tin). The applicants' tin-containing catalyst of Example 12 was able to remove much more oxygen than the tin-free catalyst of Comparative Example 6.

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The following references are made of record:

- U. S. Pat. 5,907,076 disclosing a process for the selective separation of hydrogen and carbon monoxide from olefinic hydrocarbons;
- U. S. Pat. 4,734,273 disclosing a process for the selective removal of trace amounts of oxygen from gases;
- U. S. Pat. 4,105,588 disclosing the preparation of copper and silver particles for ethylene purification;
 - U. S. Pat. 3,549,719 disclosing a process for the purification of olefins;
- U. S. Pat. 3,305,597 disclosing a process for the removal of oxygen and acetylenic contaminants from gaseous olefins;
- U. S. Pat. 2,849,515 disclosing the removal of oxygen from unsaturated hydrocarbons;
- U. S. Pat. 2,351,167 disclosing the removal of oxygen from normally gaseous olefins, and
- U. S. Pat. 1,911,780 disclosing a method for removing hydrogen from hydrocarbon gases via reaction with oxygen mixed into the gas (please see pg. 1 lns. 32-41).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy C. Vanoy whose telephone number is 571-272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Timothy C Vaury
Timothy C Vanoy
Primary Examiner
Art Unit 1754

tcv